

Abstract of the Disclosure

The present inventions relate to the means of production of high-silicate inorganic fibers of natural acidic rock minerals and also to products manufactured of said fibers, namely: continuous, staple fibers and scaly particles. In each variant of the M dacite or rhyodacite, granite or rhyolite, or a rock comprising mostly sand with silicon oxide content equal or exceeding 73% are used as a rock. The present inventions aim at proposing the means for producing inorganic fibers of natural acidic rock minerals and also the products manufactured of said fibers, namely: continuous, staple and coarse fibers and fine scaly particles having increased strength, corrosion and temperature resistance. This objective is attained by creating conditions for removing foreign inclusions, having high melting and boiling temperatures, from the melt by way of using rocks with higher silicon oxide (SiO_2) content and, therefore, higher melting points, as raw materials. This enables removal of most of foreign inclusions from the melted rock to the atmosphere.